★ QST ★

Index to Volume XLIX — 1965

ANTENNAS AND TRANSMISSION LINES

Antenna Behavior Over Real Earth (Anderson) ... 61, June
Antenna & Transmission Line Quiz (Fenwick) ... 19, July
Antenna & Transmission Line Quiz, Answers to Last Month's (Fenwick) ... 55, Aug.
Antennas, Invisible (Gordon) ... 87, Nov.
Aqueous Dummy Loads (Marion) ... 16, June
Beer-Can Baluns for 144, 220 and 432 Mc. (Halladay and Farwell) ... 48, Feb.
Feedback ... 43, Mar.
Dipole Center Insulator (H&K) ... 93, Oct.
Ground Systems for 160 Meters, Some Notes on ... 65, Apr.
Helical Beam, The Basic (DeMaw) ... 20, Nov.
Inverted-V Radiation Patterns (Covington) ... 81, May
Losses In Coax (Countryman) ... 52, Apr.
Mini-Mono-Monimatch, The (Rush, Jr.) ... 54, Mar.
Monimatch Construction (Schleicher) ... 68, Mar.
Penny-Pincher's Dream (Bluhm) The ... 63, Dec.
Quadrangle (Morgan) ... 20, Sept.
Store-Bought Hardware for the Cubical Quad (Flynn) ... 20, July
Switchable Four-Element 80-Meter Phased Array, A (Atchley, Jr.) ... 48, Mar.
"Telematch", The (Goodman and Lange) ... 21, Feb.
Feedback ... 64, Apr.
Telematch Revisited, The (H&K) ... 68, Sept.
Transmission Lines, The Whys of (Grammer)
Part I ... 25, Jan.
Part II — Standing-Wave Ratio and Line Losses ... 24, Feb.
Part III — Putting the Antenna and Line Together ... 19, Mar.
Versatile Transmatch, A (McCoy) ... 58, July
When Is A Feed Line Not A Feed Line? (McCoy) ... 37, Aug.
3 + 3 = 4 (?) ! (McCoy) ... 46, Oct.

AUDIO-FREQUENCY EQUIPMENT AND DESIGN

Audio Peak Limiter for Voice Transmission, An (Monte) ... 21, Aug.
Controlling Modulation of The Screen in 4CX250B A.M. Transmitters (H&K) ... 84, Jan.
Filterfier, The (MacClier and Thompson, Jr.) ... 32, Nov.
Transistor Audio Oscillator, A (Baxter, Jr.) ... 51, Feb.
Transistor Speech Amplifier (H&K) ... 47, Dec.
4 x 150 Screen Modulator/Regulator (H&K) ... 69, Sept.

BEGINNER AND NOVICE

Dipper, The (McCoy) ... 26, Nov.
Have You Got 'em? — Harmonics, That Is? (McCoy) ... 45, Mar.
Kit Building — What's Involved (McCoy) ... 19, June
Lightning Calculator, Using the (McCoy) ... 42, Feb.
Mox-Box, The (McCoy) ... 22, Jan.
RTTY Reception for Beginners (Blakeslee) ... 28, Mar.
Transmission Lines, The Whys of (Grammer)
Part I ... 25, Jan.
Part II — Standing-Wave Ratio and Line Losses ... 24, Feb.
Part III — Putting the Antenna and Line Together ... 19, Mar.
Versatile Transmatch, A (McCoy) ... 58, July
When Is A Feed Line Not A Feed Line? (McCoy) ... 37, Aug.
3 + 3 = 4 (?) ! (McCoy) ... 46, Oct.
15- and 10-Meter Operation and TVI (McCoy) ... 77, Dec.
35 Watts Input, 80 and 40, Crystal or V.F.O. (McCoy) ... 58, Apr.
80- and 40-Meter Transistorized Converter, An (McCoy) ... 46, Sept.

COMMUNICATIONS DEPARTMENT

C.D. Article Contest
"Achieving Your Potential" (Smolenski) ... 114, Nov.
"Amateur Radio — How Important?" (Cotterell) ... 106, July
"Amateur Radio Operators — A Community Service" (Morey) ... 112, May
"P — P — R" (Thomas) ... 107, Sept.
"QSLing" (Franklin) ... 96, Mar.
DXCC Notes ... 113, June; 124, Oct.; 112, Nov.
Election Notice ... 87, Feb.; 103, Apr.; 114, June; 92, Aug.; 123, Oct. 108, Dec.
Election Results ... 87, Feb.; 103, Apr.; 114, June; 92, Aug.; 123, Oct. 108, Dec.
High Speed Code Test ... 158, Mar.
WIAW Schedules ... 88, Jan.; 88, Feb.; 97, Mar.; 102, Apr.; 111, May 115, June; 105, July; 93, Aug.; 109, Sept.; 124, Oct.; 115, Nov. 109, Dec.

CONTESTS AND OPERATING ACTIVITIES

Armed Forces Day
Announcement ... 98, May
Results ... 104, Oct.
C.D. Article Contest
"Achieving Your Potential" (Smolenski) ... 114, Nov.
"Amateur Radio — How Important?" (Cotterell) ... 106, July
"Amateur Radio Operators — A Community Service" (Morey) ... 112, May
"P — P — R" (Thomas) ... 107, Sept.
"QSLing" (Franklin) ... 96, Mar.
C.D. Parties — Results ... 87, Jan.; 101, Apr.
DXCC Annual List ... p. 110, Dec.
DX Competition
Announcement ... 57, Jan.
High-Claimed Scores ... 73, July
Results 1965 ... 64, Oct.
Rules 1966 ... 76, Dec.
Emergency Drill, Deluxe Style (McCallum) ... 27, Oct.
Field Day, Rules 1965 ... 40, June
Results ... 72, Nov.
FMT
Announcement ... 86, Feb.; 106, Sept.
Results ... 86, Jan.; 111, June
Inexpensive NCEF Monitoring (Gjovaag) ... 51, Sept.
Novice Roundup
Announcement ... 65, Jan.
Results ... 89, July
QSO Parties
Arkansas ... 116, Dec.
Connecticut ... 122, Apr.
Delaware ... 126, Oct.
Florida ... 142, Mar.
Georgia ... 156, May
Illinois ... 96, Aug.
Maine ... 130, Dec.
Massachusetts ... 132, Sept.
Missouri ... 120, Apr.
New England ... 132, Nov.
New Hampshire ... 146, Oct.
New Jersey ... 108, Aug.
Ohio ... 116, Apr., 118, Dec.
Pennsylvania ... 112, Sept.
Saskatchewan ... 136, Feb.
Tennessee ... 100, Jan.
Vermont ... 112, Feb.
VE1 ... 134, Jan.
West Virginia ... 136, July
RTTY Sweepstakes
Results ... 60, Feb.
Fifth World-Wide ... 26, Oct.
Saga of CE0XA, The (Cushing) ... 56, Aug.
Simulated Emergency Test-1964 (Hart and Chamalian) ... 62, Feb.
Simulated Emergency Test
Announcement — ARRL 1965 ... 30, Oct.
Sweepstakes
High-Claims Scores — 1964 ... 86, Feb.
Results — 31st ARRL ... 66, May
Announcement — 32nd ARRL ... 120, Oct.; 42, Nov.
VE/W Contest
Announcement — 1965 ... 104, Sept.
Results ... 57, 58, Mar.
V.H.F. QSO Party
Announcement ... 74, June
Announcement — September ... 98, Sept.
Results — June ... 53, Sept.
Results — September ... 70, Dec.

V.H.F. Sweepstakes
Rules ..... 93, Dec.
Summary ..... 90, June

CONVENTIONS

ARRL National — 1965 ..... 10, Apr.; 52, May; 52, June
Boston or Bust! — 1966 ..... 86, Nov.
Delta Division ..... 10, Mar.
Florida State ..... 71, Jan.
Georgia State ..... 10, May
Hawaii State ..... 10, July
Maritime Province ..... 10, Aug.
Michigan State ..... 10, Feb.
Midwest Division ..... 10, Mar.
New England Division ..... 10, Apr.
Ontario Province ..... 10, Sept.
Rocky Mountain Division ..... 10, July
West Gulf Division ..... 10, June
West Virginia State ..... 10, June

EDITORIALS

CB — Ham Prospects ..... 9, Mar.
Congress — Or FCC? ..... 9, June
Conversational Art, The ..... 9, July
Emergency Communications ..... 9, Oct.
FCC Incentive Proposals ..... 9, May
Fees — and Appropriations ..... 9, Feb.
Fifty Years Ago ..... 9, Dec.
Hamfests ..... 9, June
Representative Democracy ..... 9, Apr.
Sweepstakes, 1965 Contest ..... 9, Nov.
The New Handbook ..... 9, Feb.
Year in Review, The ..... 9, Jan.
"You Guys Up There" ..... 9, Aug.
You Guys Out There, Part II ..... 9, Nov.
"4-Track" Call Signs ..... 9, Sept.
100 Years for ITU ..... 9, Sept.

EMERGENCIES

Emergency Drill, Deluxe Style (McCallum) ..... 27, Oct.
Floods in the Midwest (Chamalian) ..... 51, Nov.
Hurricane Hilda (Chamalian) ..... 30, Jan.
Tornadoes, A Tale of (Hart) ..... 88, Oct.

FEATURES

All the QSLs in the World (Campbell) ..... 81, Nov.
Amateur Radio Station Operation From a Monitoring Enforcement Viewpoint (Kratokvil) ..... 32, Dec.
Anniversary Look at QST, An ..... 10, Dec.
ARRL Board of Directors, The (Photos) ..... 41, 42, 43, May
"By Golly!" Filter, The (Eckberg) ..... 61, Feb.
Crisis in the Caribbean — I (Laun) ..... 43, Sept.
Crisis in the Caribbean — II (Saldana) ..... 44, Sept.
Death — or Survival — of Amateur Radio, The (Cowan) ..... 80, Apr.
Fatal Current, The (Brainard) ..... 58, Sept.
Field Day Is (Moreau) ..... 18, June
Ho, Hum! (Varnum) ..... 38, Sept.
How To Write for Information (Fried) ..... 55, June
Hurricane Hilda (Chamalian) ..... 30, Jan.
Inexpensive NCEF Monitoring (Giovaaz) ..... 51, Sept.
International Telecommunication Union, The (Gross) ..... 66, Sept.
Junk Box, The (Martin) ..... 56, June
KP4BPZ Story, The ..... 88, Aug.
Marketing New Ideas and Inventions (Verruso) ..... 67, July
Men Who Made League History (Williams) ..... 37, Nov
Now is the Time! (Grenfell) ..... 46, Aug.
Saga of CE0XA, The (Cushing) ..... 56, Aug.
Story of El Radar, The (DeMaw) ..... 24, Sept.
You and the Amateur Extra (Lathrop, Jr.) ..... 70, July
Vacuum Tubes The Hard Way ..... 23, Apr.
What ARRL Means to Me (Christie) ..... 41, Mar.; (Hatherell) 49, Apr.; (Moreau) 50, May; (Osterman) 78, June; (Slobb) 28, Feb.; (Young) 64, Jan.
W8NRB in the Soviet Union (DeMilner) ..... 28, May
Your Code Is Showing (Martin) ..... 50, Apr.
200 Meters Down (Pierce) ..... 57, June
4U1ITU Calling (Wolter) ..... 68, Apr.

FICTION

". . . and *After* the OMEGA Class . . ." (Troster) ..... 44, Aug.
DXMANSHIP — Phase I (Troster) ..... 53, Mar.
DX Vertical, A (Booth) ..... 99, Oct.
Experience-Technique-Finesse (Troster) ..... 41, Feb.
Key Kwivers — and — Pencil Pulses (Troster) ..... 76, Sept.
Insula Nuevo (Johnson) ..... 96, Feb.
"— It's Whoopee Six — . . ." (Troster) ..... 22, June
"Nothin' On" (Troster) ..... 67, Apr.
That's a Hot One (Troster) ..... 63, July
When I Get My Mind Made Up (Mayev) ..... 50, July

HAPPENINGS OF THE MONTH

Amateur Exams at Gettysburg ..... 33, Sept.
Amateur Radio Weeks .... 39, June; 48, Aug.; 34, Sept.; 178, Oct.
Anti-QRM Bill ..... 48, Aug.
ARRL Asks Lower Fees ..... 38, June
ARRL Staff Notes ..... 74, Jan.; 37, July; 178, Oct.
Australia and Luxembourg Reciprocity ..... 39, Oct.
Ballot Counting at Headquarters (Photo) ..... 72, Jan.
Canada Adopts C.W. Segments on V.H.F. ..... 42, Mar.
Canadian Alternate Addresses ..... 46, Feb.
Canadian Rules Changes ..... 38, Oct.
Canadian Tariff Matters ..... 37, Apr.; 33, Sept.
Commemorative Stamp Issued ..... 74, Jan.
Conditional Class Changes ..... 34, Apr.
Conditional Class Examination Circles ..... 46, Feb.
Cover Plaque Award to Loucks (Photo) ..... 41, Dec.
Dannals New Hudson Director ..... 42, Mar.
Director Election Results ..... 72, Jan.
Docket 15928 ..... 32, Sept.
Dominican Republic Reciprocity ..... 35, Apr.
Election Notice ..... 48, Aug.; 32, Sept.
Election Results ..... 35, Nov.
Examination Schedule ..... 74, Jan.; 38, July
FCC Denies Hobby License ..... 33, Sept.
FCC Examination Points Change ..... 37, Apr.; 49, Aug.
FCC Proposals For Incentive Licensing ..... 44, May
Highlights of the Board Meeting ..... 35, July
Houghton, David H. — Retires ..... 38, Oct.
License Fees Rules Legal ..... 42, Mar.
License Suspended ..... 178, Oct.
Local Legal Matters ..... 38, June
Log-Keeping in Canada ..... 35, Nov.
Massachusetts License Plates Issued ..... 38, June; 50, Aug.; 39, Oct.
Minutes of the Executive Committee Meetings ..... 43, Mar.; 39 June; 50, Aug.; 34, Sept.; 35, Nov.
Minutes of 1965 Annual Meeting of the Board of Directors ..... 40, July
PICON Plaques (Photo) ..... 74, Jan.
Reciprocal Operating — first permit granted (Photo) ..... 38, July
Reciprocal Operating Rules ..... 35, Apr.
Renumbering of Residences ..... 39, Oct.
Repeaters in Canada ..... 33, Sept.
Report of the Finance Committee ..... 35, Sept.
Report of the Membership and Publications Committee ..... 35, Sept.
Report of the Planning Committee ..... 36, Sept.
Report of the Public Relations Committee ..... 35, Sept.
Retaining Novice Calls ..... 46, Feb.
Suspensions and Revocations ..... 38, July
Third-Party Traffic with 4U1ITU ..... 35, Nov.
U. S. Amateurs in Greenland ..... 39, Oct.
Washington Television Interference Committee (Photo) ..... 39, July

HINTS AND KINKS

January, page 84
Cable Lacing Material
Controlling Modulation of the Screen in 4CX250B A.M. Transmitters
More on V.H.F. Coaxial Tanks
Save Burned-Out Transformer
Transformer Saw
February, page 27
Another Use for Octal Tube Sockets
Compact Coil Forms
Crystal Test Oscillator
V.L.F. Converter With Untuned Input
March, page 71
Cable Lacing Cord
Control Rotation Right?
Simple Interference Cure
Window Feedthrough
12-Volt Power in a 6-Volt Car
April, page 33
More on The Balanced-Modulator Transformer Core
Nifty Equipment Feet
Power and Muting for Mobile Converter
Soldering Iron Cleaner and Holder

June, pages 50–51
Improved Modulation for the November QST Transistor Rig
Labeling Equipment
Mobile Noise Hint
O-T Special
Parasitic Suppressors for Final Amplifiers
Parts Storage Rack
Relayless Screen-Grid Keying Circuit
Rotor Operation for the Handicapped
The KWM-2 and Ranger on Field Day
July, pages 80–81
Break-In Plus Sidetone
Heath SB-400
Key Base
V.F.O. Drift Measurement
Voltage Regulation?
3.5-Mc. Auto-Radio Conversion
August, pages 70–71
Cheap and Easy Squelch
Coil Forms and Standoffs
Heath "Twoer"
Oscilloscope Tube Stretcher
Soldering Aluminum?
Transformer Winding Jig
V.H.F. Grounds
V.H.F. Scope Connections
September, page 68–69
A New Rubber Cement
C.W. Audio Selectivity
Regulator-Tube Protection
The Telematch Revisited
Two-Circuit Connectors
4 x 150 Screen Modulator/Regulator
October, pages 94–95
Compact Coil Forms
Cone Insulator Extender
Crystal Oscillator for the 32V
Dipole Center Insulator
Junk-Box Zeners
Making Mounting Boards
Shock Mounting
Using The Drake Noise Blanker
November, pages 64–65
Adapting Crystals for FT-243 Holders
Cable Lacing Cord
Protecting Relays
Soldering-Iron Holder
Transient Protection for Power Supplies
Turn-to-Talk Microphone
Using the QST RX Bridge
VXO With The 20A
WWV On The Drake 2B
December, pages 46, 47
Cleaning Aluminum
Cutting Aluminum
Equipment Shelf from Pipe Fittings
Key Spring
Panadapter Adapter
Pill-Bottle plug-ins
"Starter," RTTY Converter
Transistor Speech Amplifier

IARU NEWS

Amateurs in Turkey? ..... 34, Nov.
Amateur Teletype ..... 48, July
Australian Amateur Licensing ..... 96, Oct.
Belgium ..... 74, June
Bi-lingual Instructions ..... 49, July
Canada ..... 60, Sept.
Cyprus ..... 67, Jan.
DX Operating Notes ..... 73, Aug.; 60, Sept.; 98, Oct.
DX Restrictions ..... 82, Feb.
Ecuador ..... 82, Feb.
Germany ..... 75, June
IARC Convention ..... 34, Nov.
Japan ..... 82, Feb.
Japanese Amateur Licensing ..... 59, Sept.
Korean Amateur Licensing ..... 65, Dec.
Netherlands ..... 59, Sept.
New Officers ..... 34, Nov.
Oscar Practice ..... 162, July
Peru ..... 60, Sept.
QSL Bureaus of the World ..... 75, June
Reciprocal Operating Rules for CT ..... 34, Nov.
Region I Executive Committee ..... 34, Nov.
Switzerland ..... 82, Feb.
United Kingdom Licensing ..... 72, Aug.
U.S.S.R. ..... 66, Jan.

KEYING, BREAK-IN AND CONTROL CIRCUITS

Break-In Plus Sidetone (H&K) ..... 80, July
"Bugless-Bug" Modifications (Hedgecock) ..... 51, Jan.
More on the "Bugless Bug" (Patriarche) ..... 82, Sept.
Keying, Break-in for Crystal-Controlled Cathode-Keyed Transmitters (Erdman) ..... 19, Oct.
Monifilter, The (Tyrrell and Tinker, Jr.) ..... 18, Nov.
Mox-Box, The (McCoy) ..... 22, Jan.
O-T Special (H&K) ..... 51, June
Perfect Code at Your Fingertips (Horowitz) ..... 11, Aug.
Feedback ..... 10, Nov.
Relayless Screen-Grid Keying Circuit (H&K) ..... 50, June
Save That Bug! (Temple) ..... 88, Sept.
Simple Electronic Key, A (Hayward) ..... 51, Dec.
Variable-Level Receiver Muter, A (Schafer) ..... 59, June

MEASUREMENTS AND TEST EQUIPMENT

Amateur Measurement of R + jX (Strandlund) ..... 24, June
Aqueous Dummy Loads (Marion) ..... 16, June
Calibrating the LM Frequency Meter (Countryman) ..... 18, Apr.
"Cantenna" as an R.F. Wattmeter, The (Lukoff) ..... 29, Dec.
Dipper, The (McCoy) ..... 26, Nov.
Frequency Measurement with the LM/BC-221 (Sapp) ..... 28, Sept.
KH6EGL Frequency Standard, The (Hall) ..... 33, May
Lost-Cost Precision Frequency Measurement (Skeen) ..... 32, Jan.
Meter Magic (Harbach) ..... 21, Apr.
Mini-Mono-Monimatch, The (Rush, Jr.) ..... 54, Mar.
Monimatch Construction (Schleicher) ..... 68, Mar.
Multimilliammeter, The (Shannon) ..... 86, Oct.
Noise-Figure Indicator (Sly) ..... 20, Jan.
Oscilloscope Tube Stretcher (H&K) ..... 70, Aug.
Panadapter Adapter (H&K) ..... 46, Dec.
Pulsed Signals Through S.S.B. Transmitters ..... 18, Sept.
Pulsed Two-Tone Test Oscillator, A (Lange) ..... 11, Sept.
"Telematch", The (Goodman and Lange) ..... 21, Feb.
Feedback ..... 64, Apr.
Testing a Sideband Transmitter (Blakeslee) ..... 14, Sept.
Transistor Audio Oscillator, A (Baxter, Jr.) ..... 51, Feb.
Transistor Secondary Frequency Standard, A (Grigg) ..... 11, July
Using The QST RX Bridge (H&K) ..... 64 Nov.
V.F.O. Drift Measurement (H&K) ..... 80, July
V.H.F. Scope Connections (H&K) ..... 70, Aug.
Using the Lightning Calculator (McCoy) ..... 42, Feb.

MISCELLANEOUS GENERAL

All the QSLs in the World (Campbell) ..... 84, Nov.
Amateur Commemorative Stamp ..... 54, Feb.
Amateur Radio and the Public Interest (Loucks) ..... 42, June
Amateur Radio Needs Public Relations (Snyder) ..... 74, Apr.
Amateur Radio Station Operation From a Monitoring Enforcement Viewpoint (Kratokvil) ..... 32, Dec.
Anniversary Look at QST, An ..... 10, Dec.
Antenna and Transmission Line Quiz (Fenwick ..... 19 July
Antenna and Transmission Line Quiz, Answers to Last Month's (Fenwick) ..... 55, Aug.
ARRL Awards Honor Roll for 1964 ..... 59, Mar.
ARRL Board of Directors, The (Photos) ..... 41 43, May
ARRL QSL Bureau ..... 150, Jan.; 31, Apr.; 49, May; 77, June; 87, Sept.; 10, Nov.
Blow-to-Talk ..... 54, June
Challenge of Milliwatt Power, The (Dreher) ..... 56, Oct.
Crisis in the Caribbean — I (Laun) ..... 43, Sept.
Crisis in the Caribbean — II (Saldana) ..... 44, Sept.
Effective Spectrum Use ..... 17, Apr.
Fatal Current, The (Brainard) ..... 58, Sept.
FCC Amateur Station Inspections (Kratokvil) ..... 36, June
Headquarters Building
Building Fund Progress ..... 57, Feb.; 63, Aug.; 52, Dec.
Complete The Drive in Sixty-Five! ..... 76, Mar.; 51, May
Members Are Saying ..... 57, Feb.; 76, Mar.; 51, May; 63, Aug.; 52, Dec.
Ho, Hum! (Varnum) ..... 38, Sept.

How To Write for Information (Fried) ... 55, June
International Telecommunication Union, The (Gross) ... 66, Sept.
Junk Box, The (Martin) ... 56, June
Keeping Up Interest in Your AREC Group (Hart) ... 43, Jan.
K2US Opens April 21 (Photos) ... 95, May
K7GS At The 1965 Girl Scout Roundup (Rochlitzer) ... 70, Nov.
Labeling Equipment (H&K) ... 51, June
Last Cruise of "Big Mamie", The (Olberg) ... 103, Oct.
Marketing New Ideas and Inventions (Verruso) ... 67, July
More Commemorative Stamp Coverage (Photos) ... 85-87, Apr.
New Books ... 56, Jan.; 67, Mar.; 70, Mar.; 40, Apr.; 31, June; 60, June; 92, Nov.
Notes From FCC Reports ... 85, Sept.
Parts Storage Rack (H&K) ... 50, June
PICON Has Another Meaning — (Berry) ... 57, Nov.
Statement of Ownership, Management and Circulation ... 166 Dec.
W2USA World's Fair Station — 1939 (Photos) ... 86, Aug.
You and The Amateur Extra (Lathrop, Jr.) ... 70, July
200 Meters Down (Pierce) ... 57, June

MISCELLANEOUS TECHNICAL

Adapting Crystals for FT-243 Holders (H&K) ... 65, Nov.
Amateur Measurement of R + jX (Strandlund) ... 24, June
Amateur Reception of Weather Satellite Picture Transmissions (Anderson) ... 11, Nov.
Antenna Connectors ... 20, Apr.
Cable Lacing Cord (H&K) ... 71, Mar.; 64, Nov.
Cable Lacing Material (H&K) ... 84, Jan.
Cleaning Aluminum (H&K) ... 46, Dec.
Coil Forms and Standoffs (H&K) ... 71, Aug.
Compact Coil Forms (H&K) ... 27, Feb.; 94, Oct.
Cone Insulator Extender (H&K) ... 94, Oct.
Control Rotation Right? (H&K) ... 71, Mar.
Crystal Oscillator for the 32V (H&K) ... 95, Oct.
Cutting Aluminum (H&K) ... 46, Dec.
Desk-in-Door Console, The (McKenna) ... 32, Apr.
Equipment Shelf from Pipe (H&K) ... 47, Dec.
Junk-Box Zeners (H&K) ... 94, Oct.
Key Base (H&K) ... 80, July
Key Spring (H&K) ... 46, Dec.
Making Mounting Boards (H&K) ... 94, Oct.
Meter Magic (Harbach) ... 21, Apr.
New Apparatus
- American D-501 Microphone ... 88, Nov.
- Antenna Baluns ... 101, Oct.
- Antenna Connectors ... 20, Apr.
- Carter Drill-Tap Holder ... 50, Sept.
- Dow DK78 Coax Switches ... 51, Apr.
- Handy Dandys ... 31, Nov.
- Kolin Microphone Preamplifier ... 48, Apr.
- Nitrogen Foam Coaxial Cable ... 51, Apr.
- Quad Antenna Components ... 53, Apr.
- Trav-Electric Power Pack ... 50, Sept.

New Distance Record on the 21,000 Mc. Band (Sharbaugh) ... 26, Apr.
Nifty Equipment Feet (H&K) ... 33, Apr.
O-T Special (H&K) ... 51, June
Perfect Code at Your Fingertips (Horowitz) ... 11, Aug.
Pill-Bottle Plug-ins (H&K) ... 47, Dec.
Protecting Relays (H&K) ... 65, Nov.
Rotor Operation for the Handicapped (H&K) ... 51, June
Rubber Cement, A New (H&K) ... 69, Sept.
Save Burned-Out Transformers (H&K) ... 84, Jan.
Shock Mounting (H&K) ... 94, Oct.
Slow-Scan Vidicon Camera, A (Macdonald)
- Part I — Performance and Electrical Design ... 11, June
- Part II — Mechanical Design ... 15, July
- Part III — Setup and Operating Procedures ... 24, Aug.

Soldering Aluminum? ... 70, Aug.
Soldering Iron Cleaner and Holder (H&K) ... 33, Apr.
Soldering-Iron Holder (H&K) ... 65, Nov.
Technical Correspondence
- Contacting the Power Company ... 82-83, Sept.
- Copper vs. Aluminum ... 68, Mar.
- Cross Modulation, Note on ... 83, Sept.
- Dynamic Regulation in C.W. Power Supplies ... 69, Mar.
- Losses In Coax ... 52, Apr.
- Microwave Pulse Communication ... 82, Sept.
- Monimatch Construction ... 68, Mar.
- More on K6YRQ's Frequency Counter ... 51, Apr.
  - Feedback ... 27, May
- Power Input ... 84, Sept.
- Power-Line Noise ... 70, Mar.
- Power Mounts for Moon Tracking ... 84, Sept.
- Rectification ... 69, Mar.
- R.F. Attenuator Switch ... 68, Mar.
- Sky Temperature ... 68, Mar.
  - Feedback ... 53, Apr.
- 7360 Mixers in the 75A-4 ... 69, Mar.

Technical Topics
- Some Observations with V.H.F. Folded Dipoles ... 82, Apr.
- Voltage Transient Protection for Semiconductor Power Supplies ... 84, Apr.

Tracking the Moon — In Simple English (Michael) ... 37, Jan.
Transformer Saw (H&K) ... 84, Jan.
Transformer Winding Jig (H&K) ... 71, Aug.
Tube Sockets, Another Use for Octal (H&K) ... 27, Feb.
Turn-to-Talk Microphone (H&K) ... 65, Nov.
Two-Circuit Connectors (H&K) ... 69, Sept.
Using The QST RX Bridge (H&K) ... 64, Nov.
Window Feedthrough (H&K) ... 71, Mar.
W6IEL Chassis Design, The (Alexander) ... 79, June

MOBILE

A.C. For Your Car (Lawson) ... 16, Feb.
Antenna for 2-Meter Mobile, Improved Vertical (Epp) ... 32, Oct.
Mobile Noise Hint (H&K) ... 50, June
Power and Muting for Mobile Converter (H&K) ... 33, Apr.
Simple Ignition-Noise Reduction (Lukoff) ... 61, Aug.
Simple Interference Cure (H&K) ... 71, Mar.
6- and 2-Meter Mobile, A Turnstile/Dipole for (Tilton) ... 40, Nov.
12-Volt Power in a 6-Volt Car (H&K) ... 71, Mar.
500-Watt D.C.-to-D.C. Converter (Steele) ... 90, Dec.

OPERATING PRACTICES

Code, High Speed (Nose) ... 53, Nov.
Deluges of Traffic (Hart) ... 68, Feb.
Keeping Up Interest in Your AREC Group (Hart) ... 43, Jan.
Public Service Through Civil Defense Communications (White) ... 28, Apr.
Some Fine Points in Traffic Handling (Hart)
- Part IV — Handling Traffic by Radioteletype ... 36, Feb.

Some Random Thoughts on Public Service (Hart) ... 38, Dec.
Traffic Men, Aids for (Hippisley) ... 93, Nov.
What Price BPL? (Hart) ... 76, Apr.
Your Code Is Showing (Martin) ... 50, Apr.

POWER SUPPLY

A.C. for Your Car (Lawson) ... 16, Feb.
General-Purpose Voltage-Regulated Power Supply, A (Roberts) ... 42, Dec.
Helper for the Workbench, A (Schleicher) ... 88, June
Junk-Box Zeners (H&K) ... 94, Oct.
Nickel-Cadmium Cell, The (Craven, Jr.) ... 82, July
Regulator-Tube Protection (H&K) ... 69, Sept.
Silicon Replacement of Tube Rectifiers (Countryman) ... 46, Jan.
Transient Protection for Power Supplies (H&K) ... 64, Nov.
Voltage Regulation? (H&K) ... 80, July
Voltage Regulator, Simple Adjustable (Meredith, Jr.) ... 65, Sept.
Voltage Transient Protection for Semiconductor Power Supplies ... 84, Apr.
500-Watt D.C.-to-D.C. Converter (Steele) ... 90, Dec.

PROJECT OSCAR

Oscar III
- Calls Heard ... 63, May
- Communications Results (Gabrielson) ... 84, Dec.
- Computability with Transmit-Receive Converters (McKay) ... 17, Feb.
- Congratulations to Project Oscar (And More Pictures of Oscar Participants) ... 80-81, June
- Making Use of the Telemetry Signals (Walters) ... 16, Mar.
- Orbital Predictions and How to Use Them (Gabrielson) ... 11, Mar.
- Orbits the Earth (Orr) ... 56, May
- Photo Story ... 15, Mar.
- Orbital Predictions for (Gabrielson) ... 60, May
- "Quickie" Orbital Predictions for (Orr and Walters) ... 11, Feb.
  - Feedback ... 84, Apr.
- Recording (Flink, II) ... 20, Feb.
- Slow-Scan Via ... 20, Feb.
- Some Oscar Participants (Photo Story) ... 65, May
- Telemetry System, The (Norgaard — Orr) ... 29, Jan.
- W6EE ... 28, June

Oscar IV
- Launch Announcement ... 41, Dec.

PUBLIC SERVICE

Aids For Traffic Men (Hippisley) ..... 93, Nov.
Amateur Radio and the Public Interest (Loucks) ..... 42, June
Amateur Radio Public Service Corps (Hart) ..... 60, Jan.; 68, Feb.; 88, Mar.; 76, Apr.; 90, May; 84, June; 74, July; 67, Aug.; 78, Sept.; 58, Oct.; 66, Nov.; 56, Dec.
Anatomy of Public Service Communications, The (Hart)
Part I — How John Hamm Got His ARPSC Started ..... 65, June
Part II — The Ins and Outs of John Hamm's Progress ..... 26, July
Part III — The Price of John Hamm's Prominence ..... 40, Aug.
Part IV — Putting the TCC to Work ..... 72, Sept.
ARRL National Calling and Emergency Frequencies, The ..... 64A-B, June
Dedication Plus (Hart) ..... 90, May
Deluges of Traffic (Hart) ..... 68, Feb.
Emergency Communications ..... 9, Oct.
Emergency Drill, Deluxe Style (McCallum) ..... 27, Oct.
Floods in Midwest (Chamalian) ..... 51, Nov.
Hamming From Your Fall-out Shelter (Hart) ..... 60, Jan.; 44, Mar.
Hurricane Hilda (Chamalian) ..... 30, Jan.
Jurisdiction Of The Emergency Coordinator (Hart) ..... 88, Mar.
Keeping Up Interest in Your AREC Group (Hart) ..... 43, Jan.
K7GS At The 1965 Girl Scout Roundup (Rochlitzer) ..... 70, Nov.
Public Service Through Civil Defense Communications (White) ..... 28, Apr.
Simulated Emergency Test — 1964 (Hart & Chamalian) ..... 62, Feb.
Some Random Thoughts on Public Service (Hart) ..... 38, Dec.
Some Fine Points of Traffic Handling-IV (Hart) ..... 36, Feb.
Tornadoes, A Tale of (Hart) ..... 88, Oct.
Up The Flagpole (Hart) ..... 84, June
Using The National Calling and Emergency Frequencies (Hart) ..... 60, Mar.
What Price BPL? (Hart) ..... 76, Apr.
200 Meters Down (Pierce) ..... 57, June

RECEIVERS

Shrimp Transceiver, The (Galeski, Jr.) ..... 22, May
Variable-Level Receiver Muter, A (Schafer) ..... 59, June
WWV On The Drake 2B (H&K) ..... 64, Nov.
2N2 Receiver, The (Blakeslee) ..... 11, Jan.

RECEIVING

Cheap and Easy Squelch (H&K) ..... 71, Aug.
Cross Modulation, Note on (Davis) ..... 83, Sept.
C.W. Audio Selectivity (H&K) ..... 68, Sept.
Drake Noise Blanker, Using The (H&K) ..... 95, Oct.
Handbook Converter for 160, 80, and 40 Meters, Modifying the (Creason) ..... 55, Nov.
HBR Developments (Crosby) ..... 11, Oct.
Increased Selectivity for 3-Ke.-Bandwidth Receivers (Wherry) ..... 41, Apr.
Low-Noise Double-Conversion 144-Mc. Converter, A (Lappin) ..... 22, July
Noise Considerations in Receiver Design (Boomer)
Part I ..... 24, May
Part II ..... 45, June
Noise-Figure Indicator (Sly) ..... 20, Jan.
Oscar III Compatability with Transmit-Receive Converters (McKay) ..... 17, Feb.
Panadapter Adapter (H&K) ..... 46, Dec.
R9/S1 (Poor) ..... 33, Oct.
Semiconductor Converter for 432 Mc., A (Clark) ..... 34, Dec.
Some Thoughts on Hang A.G.C. Systems (Opal) ..... 60, Dec.
Some Thoughts on Home Receiver Design ("The Miser's Dream") (Goodman) ..... 11, May
Feedback ..... 26, Aug.
Transistor Preamplifier for 432 Mc., A (Brannin) ..... 62, Oct.
V.L.F. Converter With Untuned Input (H&K) ..... 27, Feb.
Weak Signal V.H.F. Reception (Olson) ..... 25, Dec.
2 + 6 Converter-Preamplifier, The (DeMaw) ..... 48, Dec.
3.5-Mc. Auto-Radio Conversion (H&K) ..... 80, July
80- and 40-Meter Transistorized Converter, A (McCoy) ..... 46, Sept.

RECENT EQUIPMENT

Alltronics-Howard Model L RTTY Converter ..... 51, Oct.
Clegg Apollo Six Linear Amplifier, The ..... 91, Nov.
Clegg SS Booster ..... 87, July
Clegg 22'er, The ..... 38, Apr.
Drake TR-4 Transceiver ..... 80, Dec.
Dynalab Three-Band Conversion Kit ..... 54, Oct.
Gonset Sidewinder 2-Meter Transceiver, The ..... 64, Mar.
Gonset Sidewinder 6-Meter Transceiver, The ..... 76, Aug.
Gonset 903A and 913A V.H.F. Amplifiers ..... 74, Aug.
Hallicrafters SR-42 and SR-46 V.h.f. Transceivers ..... 85, July
Heathkit HW-14 Sideband Linear Amplifier Kit, The ..... 89, Nov.
Heathkit SB-200 Linear Amplifier, The ..... 88, May
Heathkit SB-400 Transmitter, The ..... 54, Jan.
Henry 2-K Linear Amplifier ..... 82, June
NCL-2000 Linear Amplifier, The ..... 58, Feb.
Racal RA-71, The ..... 52, Oct.
Swan 350 Transceiver, The ..... 61 Sept.

REGULATIONS

Canada Adopts C.W. Segments of C.H.F. ..... 42, Mar.
Canadian Alternate Addresses ..... 46, Feb.
Citizens Rule Changes ..... 39, June
Conditional Class Examination Circles ..... 46, Feb.
Conditional Class Mileage Changed ..... 34, Apr.
Dominican Republic Reciprocity ..... 75, Apr.
DX Operating Notes ..... 77, June; 49, July
Examination Point Changes ..... 37, Apr.
Fairbanks, Alaska Examinations ..... 38, June
FCC Proposals For Incentive Licensing ..... 44, May
Fee Adjustment Proposed ..... 48, May
Reciprocal Operating Rules ..... 35, Apr.; 48, May; 38, June
Retaining Novice Calls ..... 46, Feb.

RTTY

Amateur Teletype ..... 48, July
Audio Frequency-Shift Keying for RTTY (Hoff) ..... 32, June
Fun with Teletype (Hoff) ..... 44, Dec.
Mainline TT/L F.S.K. Demodulator, The (Hoff) ..... 27, Aug.
Operating The Teleprinter (Hoff) ..... 29, Feb.
Over-All Design Considerations for RTTY Demodulators (Hoff) ..... 44, Apr.
Receiving Radioteletype (Hoff) ..... 24, Mar.
RTTY Reception for Beginners (Blakeslee) ..... 28, Mar.
RTTY Indicator Systems (Hoff) ..... 21, Oct.
RTTY Station, Operating The (Hoff) ..... 44, Nov.
Some Fine Points in Traffic Handling (Hart)
Part IV — Handling Traffic by Radioteletype ..... 36, Feb.
"Starter," RTTY Converter (H&K) ..... 46, Dec.
Teletype Machine, The (Hoff) ..... 14, Jan.
Transmitting Radioteletype (Hoff) ..... 16, May

SINGLE SIDEBAND

Filterfier, The (MacCluer and Thompson, Jr.) ..... 32, Nov.
Heath SB-400 (H&K) ..... 80, July
Pulsed Signals Through S.S.B. Transmitters ..... 18, Sept.
Pulsed Two-Tone Test Oscillator, A (Lange) ..... 11, Sept.
Testing a Sideband Transmitter (Blakeslee) ..... 14, Sept.
VXO With The 20A (H&K) ..... 65, Nov.
5-Mc. V.F.O., A Compact Stable (Meredith) ..... 29, Nov.
6-Meter S.S.B. Mixer-Converter, A (Deane) ..... 51, Aug.

TRANSISTORS

Audio Peak Limiter for Voice Transmission, An (Moate) ..... 21, Aug.
Challenge of Milliwatt Power, The (Dreher) ..... 56, Oct.
Dipper, The (McCoy) ..... 26, Nov.
Filterfier, The (MacCluer and Thompson, Jr.) ..... 32, Nov.
Improved Modulation for the November QST Transistor Rig (H&K) ..... 50, June
Monifilter, The (Tyrrell and Tinker, Jr.) ..... 18, Nov.
Semiconductor Converter for 432 Mc., A (Clark) ..... 34, Dec.
Simple Electronic Key, A (Hayward) ..... 54, Dec
Transistor Audio Oscillator, A (Baxter, Jr.) ..... 51, Feb.
Transistor Preamplifier for 432 Mc., A (Brannin) ..... 62, Oct.
Transistor Secondary Frequency Standard, A (Grigg) ..... 11, July
Feedback ..... 10, Nov.
Transistor Speech Amplifier (H&K) ..... 47, Dec.
80- and 40-Meter Transistorized Converter, An (McCoy) ..... 46, Sept.
500-Watt D.C.-to-D.C. Converter (Steele) ..... 90, Dec.

TRANSMITTERS

Shrimp Transceiver, The (Galeski, Jr.) ..... 22, May
Single-Band Combos (Schorle, Jr.) ..... 32, Mar.
35 Watts Input, 80 and 40, Crystal or V.F.O. (McCoy) ..... 58, Apr.
100 Watts on 6 Meters (Yancey) ..... 12, Apr.

TRANSMITTING

A.M./C.W. Exciter for 144 Mc., An (DeMaw) ..... 39, Sept.
Audio Frequency-Shift Keying for RTTY (Hoff) ..... 32, June

Controlling Modulation of the Screen in 4CX250B A.M. Transmitters (H&K) ..... 84, Jan.
Crystal Oscillator for the 32V (H&K) ..... 95, Oct.
Crystal Test Oscillator (H&K) ..... 27, Feb.
Different Type of V.F.O. Circuit, A (Gordon) ..... 30, July
Grounded-Grid Linear Amplifier, A "Top-Band" (Sutherland and Barber) ..... 40, Oct.
Have You Got 'Em — Harmonics, That Is? (McCoy) ..... 45, Mar.
Heath SB-400 (H&K) ..... 80, July
HW-12 Modifications, Some (Biggs) ..... 71, Apr.
Keying, Break-in for Crystal-Controlled Cathode-Keyed Transmitters (Erdman) ..... 19, Oct.
KWM-2 and Ranger on Field Day, The (H&K) ..... 51, June
Oscar III Compatability with Transmit-Receive Converters (McKay) ..... 17, Feb.
Parasitic Suppressors for Final Amplifiers (H&K) ..... 51, June
Relayless Screen-Grid Keying Circuit (H&K) ..... 50, June
Sweep-Tube Linear Amplifier for 75 Meters, A (Wolffa, II) ..... 64, July
V.F.O. Drift Measurement (H&K) ..... 80, July
W6IEL Chassis Design, The (Alexander) ..... 79, June
4 × 150 Screen Modulator/Regulator (H&K) ..... 69, Sept.
5-Mc. V.F.O., A Compact Stable (Meredith) ..... 29, Nov.

V.H.F. AND MICROWAVES

Amateur Reception of Weather Satellite Picture Transmissions (Anderson) ..... 11, Nov.
A.M./C.W. Exciter for 144 Mc., An (DeMaw) ..... 39, Sept.
Antenna for 2-Meter Mobile, Improved Vertical (Epp) ..... 32, Oct.
Beer-Can Baluns for 144, 220 and 432 Mc. (Holladay and Farwell) ..... 48, Feb.
Feedback ..... 43, Mar.
Heath "Twoer" (H&K) ..... 71, Aug.
Helical Beam, The Basic (DeMaw) ..... 20, Nov.
How High The Moon (Lund) ..... 55, July
Improved Modulation for the November QST Transistor Rig (H&K) ..... 50, June
KP4BPZ Story, The ..... 88, Aug.
Low-Noise Double-Conversion 144-Mc. Converter, A (Lappin) ..... 22, July
Microwave Pulse Communication (Zimmer) ..... 82, Sept.
New Distance Record on The 21,000 Mc. Band (Sharbaugh) ..... 26, Apr.
Oscar Practice ..... 102, July
Power Mounts for Moon Tracking (Michael) ..... 84, Sept.
Semiconductor Converter for 432 Mc., A (Clark) ..... 34, Dec.
Some Observations with V.H.F. Folded Dipoles ..... 82, Apr.
Story of El Radar, The (DeMaw) ..... 24, Sept.
Tracking the Moon — In Simple English (Michael) ..... 37, Jan.
Transistor Preamplifier for 432 Mc., A (Brannin) ..... 62, Oct.
V.H.F. Coaxial Tanks, More on (H&K) ..... 84, Jan.
V.H.F. Grounds (H&K) ..... 71, Aug.
V.H.F. Scope Connections (H&K) ..... 70, Aug.
Weak Signal V.H.F. Reception (Olson) ..... 25, Dec.
2 + 6 Converter-Preamplifier, The (DeMaw) ..... 48, Dec.
2N2 Receiver, The (Blakeslee) ..... 11 Jan.
6- and 2-Meter Mobile, A Turnstile/Dipole for (Tilton) ..... 40, Nov.
6-Meter S.S.B. Mixer-Converter, A (Deane) ..... 51, Aug.
100 Watts on 6 Meters (Yancey) ..... 12, Apr.